



February, 4, 2008

Division of Water, Surface Water Permits Branch ATTN: Mr. William Shane 200 Fair Oaks Lane Frankfort, KY 40601

Subject:

AI 43647; Effluent Characteristics for KY0104329

Mr. William Shane,

Please find enclosed the completed section XII of the DEP 7032SC and corresponding lab analysis. Feel free to contact me if you need anything further.

All

Thanks

Tosh Brown Director of Safety 270-442-5496

jbrown@fmc1.com

Additive	IVES AND THEIR COMPOSITION Composition		Concentration (mg/l)
			DEGEIL
			1 FEB 1 2 201
			Ву
A. Indicate results of analysis for	r pollutants listed below.		
POLLUTANT/PARAMETER	MAX DAILY VALUE	AVG DAILY VALUE	NUMBER OF SAMPLE
BOD ₅	BOL		1
TOTAL SUSPENDED SOLIDS	80 MG/L	40 MG/L	1
FECAL COLIFORM	<2 col/100 ml		1
TOTAL RESIDUAL CHLORINE	BOL		i
OIL AND GREASE	15 MG/L	10 MG/L	1
CHEMICAL OXYGEN DEMAND	200 mg/L		l t
TOTAL ORGANIC CARBON	57 mg/L		I
AMMONIA	0.93 mg/L		1
DISCHARGE FLOW	10 GPM	10 GPM	1
H	9 SU	7.5 SU	7
TEMPERATURE (WINTER)	45°F		1
TEMPERATURE (SUMMER)			
	97		
3. Frequency and duration of flow:	9.7gpm		
(III. CERTIFICATION			
certify under penalty of law that t	his document and all attachments vat qualified personnel properly gathe	vere prepared under my direct	tion or supervision in accordance submitted. Based on my inqui
f the person or persons who mana	ge the system, or those persons dire	ectly responsible for gathering	the information, the information
ubmitted is, to the best of my kno	wledge and belief, true, accurate, as ing the possibility of fine and impri	nd complete. I am aware that	there are significant penalties
IAME AND OFFICIAL TITLE (ty	pe or print):	TELEPHONE NUMBE	ER (area code and number):
∕ır. ⊠ Ms. □ Chris Bright - Pr	esident/CEO	(270) 442-5496	
SIGNATURED , M	VA	DATE	
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	reinquisned of wardingure)	Relinquished by Supplying	Reinquished by: (Signature)		KGIIId KS.	*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other										Sample ID	acked on Ice N Y	mmediately	collected by (signature):	Slected by (print):	AX: (859) 294-5255	Phone: (859) 294-5155	Project Description: Federal Materials	Report to: Mark Edmonson		Lexington,KY 40505	948 Flovd Drive	Shield Env Lexington, KY
	Date:	Date:	Date:			- WasteWater D										Comp/Grab	Two Day Three Day	Next Day	Rush? (1 9		Client Project #:						ton, KY
	Time	Time	Time			W - Drinking \									ww	Matrix.			(Lab MUST Be Notified)									
	Nac Roca					Water OT - Ot										Depth	50%	100%	Be Notified)	P.O.#	SI	Lab	City/State Collected	Email:				Alternate billing information:
ζ.	A SA	Received by: (\$)000	Received by: (Signature)			her_								,	1/9/09	Date	Email?		Date Resu		SHIELDKY-FEDERAL	Lab Project#	X. R	Mark_Edmor				information:
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	Date:	Temp	Samples returned via:	963262577111			vest.	para	eigidi)	penny.	ettis.				×	FC	Micro	bid	ologi	cal				18001		105/4845 165/4000	eplana	ontainer/Prese
	es a	- B	ples returned via FedEx⊡Courier	1571	ਸ਼	TO					1200	#			×		3 250 HEX	MALTER	-	Marie Control	10.20	-	SO4		Supplied in			reservative
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	pH Checked: NCF	COCCALITIEST Y NA NA	Container (leb use grill)		1 6,P.M Other	7.2 Temp 45°							277			Remarks/Contaminant Sample # (lab only)	Supposition KedEX Ground	1 amplant Prior 15:493-P269111	Accinum SHELDKY (equise only).		FAX (615) 758-5859	Phone (800) 767-5859	Mt. Juliet, TN 37122	SCIENCE CORP.	# ENVIRONMENTAL	Prepared by:		Chain of Custody Page ☐ of ⊋

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pH Checked:	Time	Date		No. of the last	Signature	d for law over	Receive	Time:	Date:	•	Relinquished by a Signature)
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Condition	via: UPS	Samples returned via:			ature)	Received by: (Signature)	Rece	Time:	Date:		Relinquished by: (Signature)
6.PM Other	Flow 9,7										Kemarks:
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	100	200		10m 9 X	GLOO ALM	1/9/09		ww			
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				VoPr			P.O.#:		1 2		Collected by (print): Bremer
FAX (615) 758-5859	te s ti				FEDERA	SHIELDKY-FEDERAL	HS				AX: (859) 294-5255
Phone (800) 767-5859	ENNE Since					Lab Project #	Lab P		Client Project #:	Clie	hone: (859) 294-5155
Mt. Juliet, TN 37122			NERA OF US			- a	City/State Collected			ials	Project Description: Federal Materials
SCIENCE CORP		Aller Pri		ieldmw	Edmonson@shieldmw		Email: Mark	g		000	Report to: Mark Edmonson
# ENVIRONMENTAL				i pi							
Prepared by:	kulk									505	Lexington,KY 40505
											948 Flovd Drive
							ď		ı, KY	exingtor	Shield Env Lexington, KY
	tive	ontainer/Preservative	Analysis/Cor	, A		nformation:	Altemate billing information:	Alta			



12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Marw W. Beasley, ESC Representative

Mark Edmonson Shield Env. - Lexington, KY 948 Floyd Drive

Lexington, KY 40505

Report Summary

Monday January 19, 2009

Report Number: L383052 Samples Received: 01/12/09 Client Project:

Description: Federal Materials

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use If you have any questions regarding this data package, please do not resitate to sall.

Entire Report Reviewed By:

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140 NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Where applicable, sampling conducted by ESC is performed per guidance provided

in laboratory standard operating procedures: 060302, 060303, and 060304.

1 Samples Reported: 01/19/09 15:45 Printed: 01/19/09 15:45 Page 1 of 4



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mark Edmonson Shield Env. - Lexington, KY 948 Floyd Drive Lexington, KY 40505

January 19, 2009

ESC Sample # : L383052-01

Date Received : January 12, 2009 Description : Federal Materials Description

Site ID :

Sample ID

Project # :

Collected By : Blake B. Collection Date : 01/09/09 08:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH (On Site) Temperature (on-site) Flow Measure	7.2 45. 9.7		su Deg. F gpm			
BOD	BDL	5.0	mg/l	SM5210B	01/13/09	1
Chlorine, residual	BDL	0.10	mg/l	4500Cl-G	01/13/09	1
COD	200	20.	mg/l	410.4	01/14/09	1
Coliform, fecal	<2		col/100ml	SM9222D	01/12/09	1
Ammonia Nitrogen	0.93	0.10	mg/l	350.1	01/15/09	1
рН	6.8		su	4500H-B	01/15/09	1
Oil & Grease (Hexane Extr)	BDL	6.2	mg/l	1664A	01/16/09	1
TOC (Total Organic Carbon)	57.	1.0	mg/l	5310B	01/16/09	1
Suspended Solids	6.0	1.0	mg/l	2540D	01/13/09	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

. Reported: 01/19/09 15:45 Printed: 01/19/09 15:45 L383052-01 (PH) - 6.8@17.9c

Attachment A List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run	Qualifier
L383052-01	WG401778 WG402255 WG402115 WG402483	SAMP SAMP SAMP SAMP	Chlorine, residual pH BOD Coliform, fecal	R592369 R595425 R597445 R594486	T8 T8 T8

Attachment B Explanation of QC Qualifier Codes

Qualifier	Meaning	
Т8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.	

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision The agreement between a set of samples or between duplicate samples.

 Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, TIC or surrogates.

Summary of Remarks For Samples Printed 01/19/09 at 15:45:43

TSR Signing Reports: 134 R5 - Desired TAT

No "E's" Send 21trs for PAH. ln 12/13/01

Sample: L383052-01 Account: SHIELDKY Received: 01/12/09 09:30 Due Date: 01/19/09 00:00 RPT Date: 01/19/09 15:45 Run FC as rec'd - MB